

Claims

1. Pull-out slide set with rail system (1), containing at least one fixed cabinet rail (2) and one lengthwise movable drawer rail (5) that is situated directly or indirectly by a center rail (4) on it; whereby, both a damping device (7) and a coupling device (6) are located between the stationary cabinet rail (2) and the drawer rail (5) that is linearly movable to it **is characterized by** the damping device (7) contains at least one cylinder (8) and at least one damped linearly movable piston rod (9), which is located in it. The damping device (7) is connected with one of the rails (2 or 5) by one of its damping components (8 or 9) and can be coupled at times with the other corresponding rail (5 or 2) by its respective other damping component (9 or 8) by means of the coupling device (6).
2. Pull-out slide set, according to claim 1, is characterized by the damping device (7) that is in the front area of the drawer rail (5) and operates at the end of the push-in phase in the proximity of the drawer's closing-end position.
3. Pull-out slide set, according to claim 1 or 2, is characterized by the coupling device (6) that is located in the front area of the cabinet rail and the drawer rail (5) and operates at the end of the push-in phase in the proximity of the drawer's closing-end position.
4. Pull-out slide set, according to one of the preceding claims, is characterized by the cylinder component (8) that is connected to the movable drawer rail (5) and the piston rod (9) that is connected to a first part (11,12) of the coupling device (6), which works together with a second part (10) of the coupling device (6) on the cabinet rail (2) at times positively interlocking and at times releasable.
5. Pull-out slide set, according to claim 4, is characterized by the fact that the coupling device's (6) first part (11, 12) has a hook body (11) that is located on the free end of the piston rod (9) on a fastening area (25) and has on the hook body's (11) free end at least one return-motion hook (12), which can be moved flexibly and springy by the application of force of one of the guide wedge's (13) that is firmly connected to the drawer rail (5),

and, the second part (10) of the coupling device (6) has at least one tab (22) that can be engaged at times with at least one return-motion hook (12).

6. Pull-out slide set, according to claim 5, is characterized by the fact that when the drawer is being pushed into the closing direction (15) between a pre-defined inserted position and the closed position, an inner front side (32) of the hook body (11) lies form-fitting on the outer front side (31) of the damper stop (10).
7. Pull-out slide set, according to claim 5 or 6, is characterized by the fact that when the drawer is being pulled out in the opening direction (17), between the closed position and a pre-defined ‘opening’ position, an outer pull-out ramp (29) of at least one return-motion hook (12) engages form-fitting with an inner front side (30) of at least one tab (22).
8. Pull-out slide set, according to claim 7, is characterized by a guide wedge (13) that is connected firmly to the drawer rail (5), when the drawer is being pulled out in opening direction (17) between the closed position and a pre-defined pulled-out ‘opening’ position, the drawer ensures that at least one return-motion hook (12) is engaged with at least one tab (22).
9. Pull-out slide set, according to one of the preceding claims, is characterized by the damping device (7) that operates essentially only in the closing direction (15) of the drawer and not at all, or only insignificantly, in the opening direction (17) of the drawer.
10. Pull-out slide set, according to one of the preceding claims, is characterized by the damper device (7) that is designed as a gas (air/pneumatic) damper and/or liquid damper.
11. Pull-out slide set with rail system (1), containing at least one firmly fixed cabinet rail (2) and a lengthwise movable drawer rail (5) that is held directly or indirectly by a center rail (4); whereby, both a damping device (7) and a coupling device (6) are located between the firmly fixed cabinet rail (2) and the linear-movable drawer rail (5) **is characterized by** the damping element (7) that has a cylinder (8) and piston rod (9) is located between

the drawer rail (5) and cabinet rail (2), which damping element (7) is fastened with its cylinder part (8) to the movable drawer rail (5) and which piston rod (9) is designed as a part of the coupling device (6), which works together form-fitting and releasable with another part of the coupling device (6) in the form of a stop component (10) on the cabinet rail (2).